MISCELLANEA.

INSECTS

REPORT ON A SMALL COLLECTION OF FLEAS FROM INDIA AND CHINA.

[The following report on a small collection of fleas belonging to the Indian Museum has been received from the Hon. Charles Rothschild.]

Pulex irritans, Linnaeus.

1758. Systema Naturae, Ed. x, No. 614. Tengyueh, Yunnan, W. China; ca. 5,400 ft. Ukhrul, Manipur, Assam; 6,400 ft. Darjiling, E. Himalayas; 7,000 ft.

Ceratophyllus alladinis, Rothschild.

1904. Novitates Zoologicae, vol. xi, p. 632, No. 23, pl. xii, fig. 53.

Garhwal, W. Himalayas; from Pteromys inornatus.

[Described from Sidapur, India; from "small jungle squirrel."]

Xenopsylla nesiotes, Rothschild and Jordan.

1908. Parasitology, vol. i, p. 47, No. 10, pls. iii, vi, figs. 3, 4. Calcutta; from rat (? Mus rattus).

[Described from Christmas Island; from Mus macleari.]

Xenopsylla pallidus, Taschenberg.

1880. *Die Flöhe*, p. 65, pl. i, fig. 9.

Karachi, Sind, W India; from Erinaceus collaris.

Ceratophyllus fasciatus, Bosc.

1800. Bulletin des Sciences par la Société Philomatique, ii, p. 156, No. 44.

Amritsar, Punjab; from various species of rats.

,, ; from Mus rattus.

Ctenocephalus canis, Curtis.

1826. British Entomology, iii, No. 114, figs. A—E × 8. Amritsar, Punjab.

Below Phagu, Simla Hills, 7,000 ft., Western Himalayas; from sheep.

[Specimens of Mallophaga and of the tick *Haemaphysalis flava*, Neum., were obtained on the same sheep.—N. A.]

Ctenocephalus telis, Bouche.

1835. Nova Acta Physico-Medica Academiae Caesarede Leopoldino Carolinae Naturae Curiosorum, vol. xvii, p. 505.

Berhampur, Murshidabad District, Bengal; from cat. Calcutta Zoological Gardens; from domestic cat.

,, ,, ; from Hyaena striata.
... : from domestic goat.

,, , , , ; from domestic go Agra, United Provinces; from Erinaceus grayi.

Calcutta; from Canis aureus.

[Numerous specimens of lice and of a small variety of the tick *Haemaphysalis leachi* (types of var. *indica*, Warburton) were obtained from the same jackal.—N. A.]

Amritsar, Punjab: from Mus rattus.

,, ; from various species of rats.

Xenopsylla cheopis, Rothschild.

1903. Entomologist's Monthly Magazine, 2nd series, vol. xiv, p. 85, pls. i-ii, figs. 3, 9, 12, 19.

Amritsar, Punjab; from Scotophilus temmincki.

,, ; from Mus rattus.

, , ; from various species of rats.

N. CHARLES ROTHSCHILD.

Some Flies found associated with Cattle in the neighbourhood of Calcutta.—By permission of Col. Raymond, C.V.D., the museum collector spent a few days about August 20th of last year (1910) at the Veterinary College, Belgatchia, Calcutta, collecting flies from the cattle there. These have now been identified, mostly by Mr. Brunetti, as shown in the following list:—

On cattle in the open during the day:—

Tabanus albimedius, Wlk.	1 specimen.	
Tabanus hilaris, Wik.	I	,,
Oscinidae (not known to suck blood)	3 :	specimens.
Anthomyid (? Cacnosia) (not known to suck		
blood)	2	,,
Stomoxys calcitrans, L.	9	,,
Stomoxys indica, Pic. (= limbata, Aust.)	7	,,
Liperosia exigua, Meij.	29	,,
Lipcrosia minuta, Bez.	16	,,